

CLAIMS

1. - Support frame for automobile vehicle sunroofs, comprising a front element (1) and longitudinal elements (2) implemented in one piece with the incorporation therein of several other ancillary elements, in which a slide (16) runs along each of the two longitudinal elements, said slide being pulled by a tow element, and which is characterized in that:
 - 10 - the support frame is a single piece implemented by injection of fused material in closed mould, which material can be a thermoplastic, a light alloy, or any other structural material capable of being conformed with this procedure, U-shaped, consisting of a front element (1), and two longitudinal elements (2);
 - 15 - a channel (10) for guiding the tow element, which carries the slide (16) and for the sliding of the link with the tow element in the actual slide, which is carried out along the two longitudinal elements (2) of the support frame,
 - 20 - an area above the channel cited wherein the pulled slide (16) is seated, which has predominantly vertical walls (16, 17) which laterally control possible displacements of said slide in the horizontal plane.
 - 25 - Support frame for automobile vehicle sunroofs, according to claim 1, characterized in that the channel (10) for guiding the element, tow line, which carries the slide is constituted by an alignment of semi-cylindrical areas (5) separated by open spaces (11), these areas being convex toward the lower face of the longitudinal element, which areas combine with other areas (9) in quarter cylinder form which are located above the open spaces and are convex
 - 30 - toward the upper face, constituting a tubular housing with a longitudinally open window through which can run the links (23) of the actual slide with its lower end (13) secured to the driving element, the tow element.
 - 35 - Support frame for automobile vehicle sunroofs, according to claim 1, characterized in that the channel for guiding the element, tow line, which moves

the slide is formed by a downwardly convex lower semi-cylinder (26), and in a discontinuous manner upwardly convex confronting arches (27), left and right which leave a top space between them so that the part of the slide which is joined to the tow element can pass. In the lower semi-cylinder are some gaps

- 5 whose horizontal projection coincides with the horizontal projection of said arches, the number of gaps being the same as that of the arches.

4. - Support frame for automobile vehicle sunroofs, according to claim 1, characterized in that in a lateral portion (26) of each longitudinal element,

- 10 adjoining the area of housing and guiding the pertinent pulled slide, three longitudinal recesses are defined, one for guidance (19) to receive the end of a flange bent back on itself (18) of the slide, another (20) for the guidance of the moveable panel and a third (21) for the securing of a joint which finishes the edges of the trim and of the window top.

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5. - Support frame for automobile vehicle sunroofs, according to claims 1 and 4, characterized in that it consists of another pair of channels (6) for guiding the tow element excess, and which are constituted by two rows of alternating projections of semi-cylindrical section (7, 8) with free spaces and confronting 20 each other in the free spaces.

6. - Support frame for automobile vehicle sunroofs, according to claim 1, characterized in that it comprises a drip rail area (12) made in each longitudinal element (2) in longitudinal form.

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7. - Support frame for automobile vehicle sunroofs, according to claim 1, characterized in that the anchorage points and supports on the bodywork of the vehicle are integrated in the same body.

- 30 8. - Support frame for automobile vehicle sunroofs, according to claims 1 and 4, characterized in that the front element (1) of the frame also includes a drip rail (12) connected to that of the lateral longitudinal elements and to the means used to drain the water.

- 35 9. - Support frame for automobile vehicle sunroofs, according to claim 1,

characterized in that in the front element (1) of the frame, channels (6) are incorporated to guide the tow element implemented as a continuation of those of the longitudinal elements, as well as various anchorage areas and supports, and an area (22) for mounting a motor.

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10. - Support frame for automobile vehicle sunroofs, according to claim 1, characterized by the possibility of incorporating one or more crosspieces between the guides.

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